

Dimetcote® 4A

Water-based inorganic zinc silicate

Product Data

- Water – based no solvent flammability hazard
- Broad chemical resistance
- Rapid water resistance
- Fast drying and handling
- Reduced cure times prior to service
- Meets FDA requirements for selected food services
- No lead pigments added
- Enviropac™ powder packaging provides convenient disposal or package recycling.

Dimetcote 4A represents a break-through in water-based inorganic zinc silicate technology. Based on a unique silicate binder formulation, which greatly improves both application and performance properties over previous technologies.

Dimetcote 4A represents the best water-based IOZ available for application, thickness tolerance and tank lining.

Typical Uses

Dimetcote 4A as a tank lining protects ship's cargo and ballast tanks, storage tanks containing solvents, fuels and a broad range of petroleum products. See Dimetcote 4A Resistance List.

Physical Data

Finish	Flat	
Color	Gray	
Components	2	
Curing mechanism	Water evaporation and chemical reaction between components	
Dry film thickness per coat	3 mils (75 microns)	
Coats	1	
Theoretical coverage	ft ² /gal	m ² /L
1 mil (25 microns)	1010	24.8
3 mils (75 microns)	336	8.3
VOC	0.0 lb/gal	0.0 g/L
Temperature resistance	Dry	
	°F	°C
continuous	750	382
immersion	See Dimetcote 4A Resistance List	
Flash point	Not applicable	

Application Data

Applied over	Prepared steel		
Surface preparation	SSPC-SP5 or 10		
Method	Airless or conventional spray		
Mixing ratio			
1-gal	16.8 lbs powder to 0.7 gal liquid		
5-gal	84.0 lbs powder to 3.5 gal liquid		
Pot life (hours)		°F/°C	
	90/32	70/21	50/10
	5	8	12
Environmental conditions			
Temperature	°F	°C	
air	40 to 120	4 to 49	
surface	40 to 130	4 to 54	
Relative humidity during application and initial drying			
maximum	85% at 70°F		
Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation. At freezing temperatures surface must be free of ice.			
Thinner	None – Do not thin for any reason.		
Equipment cleaner	Water		

Drying time (ASTM D1640) @ 70% RH* (minutes)

	°F/°C			
	90/32	70/21	50/10	40/4
touch	2	3	4	5
handle	3	6	13	22
recoat	3	6	13	22

Cure for water insoluble @ 70% RH* (hours)

@ 3 mils	1/4	1/2	3/4	1
@ 6 mils	1/2	1 1/2	2	3
@ 9 mils	3/4	2	3	4 1/2

Cure for ballast service @ 70% RH* (hours)

@ 3 mils	12	24	48	72
@ 6 mils	24	36	72	120
@ 9 mils	36	72	120	180

Cure for chemical service @ 70% RH* (hours)**

@ 3 mils	5	8	16	24
@ 6 mils	9	16	32	48
@ 9 mils	12	24	48	72

*Above 70% relative humidity up to the maximum of 90%, time will double.

**Cure for chemical service may be accelerated by salt water washing after water insoluble time. Washing will reduce cure time by 25%.

Application Data Summary

See Application Instructions for complete information on surface preparation, environmental conditions, application procedures and equipment. To obtain maximum performance, apply as recommended. Adhere to all safety precautions during storage, handling, application and drying periods.

Safety Precautions

Read each component's material safety data sheets before use. Mixed material has hazards of each component. Safety precautions must be strictly followed during storage, handling and use.

Shipping Data

Packaging units	1-gal	5-gal
liquid	0.7 gal in 1-gal can	3.5 gal in 5-gal can
powder	16.8 lbs in 1-gal can	84.0 lbs in 5-gal can

Shipping weight (approx)

1-gal unit	lb	kg
liquid	7.9	3.6
powder	17.8	8.1
5-gal unit		
liquid	38	17.2
powder	87.3	39.7

Shelf life when stored indoors at 40 to 100°F (4 to 38°C)

liquid	6 months from shipment date
powder	2 years from shipment date

Protect from freezing.

Mixed product is nonphotochemically reactive as defined by South Coast Air Quality Management District's Rule 102 or equivalent regulations.

Numerical values are subject to normal manufacturing tolerances, color and testing variances. Allow for application losses and surface irregularities.

Warranty

Ameron warrants its products to be free from defects in material and workmanship. Ameron's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at Ameron's option, to either replacement of products not conforming to this Warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to Ameron in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify Ameron of such nonconformance as required herein shall bar Buyer from recovery under this Warranty.

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